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(54) Title: ANTIVIRAL PROTEINS WITH IMPROVED PROPERTIES AND METHODS THEREFOR

Gene and AA sequence

M L G K F S Q T C Y N S A I Q G S V L T S T C E R T N G G  
1 AGGAGGACAG CTATGCTGGG CAAGTCAGC CAGACCTGCT ACACAGGGC GATTCAGGGC ACCGTTCTGA CCAGCACCTG CGAACGTACG ATGGTGGCT  
TCCCTCTGTC GATACGACCC GTCTAAGTCG CTCTGGACGA TGTGTGCGG CTAAGTCCCG TCGCAAGACT GGTCTGGAC GCTTGCATGG TTACCAACGA  
Y N T S S I D L N S V I E N V D G S L K W Q P S N F I E T C R N T Q  
101 ACACACTTC TAGCATTTGAT CTGAACAGGG TGAATTGAGGA TGTTGATGGC TCTCTGAAT GGCAACCCGAG CAACCTCATT GAACCTGTC GCAACACCCA  
TGTGTGAG ATCGTAACTA GACTTGTGGC ACTAACTCTT ACACCTACCG AGAGACTTTA CGCTGGCTC GTGAGAGTAA CTTTGGACAG CGTGTGGGT  
L A G S S E L A A E C K T R A Q Q F V S T K I N L D D H I A N I D  
201 GCTGGCGGGC AGCTCTGAC TGGGGCGAGA ATGGAGACT CGGGGGCAGG AGTTTGAG GACCAAGATC AACCTGGACG ATCACATGCC GACATGTAT  
CGACCGCCCCC TCGAGACTTG ACCGGGGCTCA YACCTCTGA CGGGGGCTCA TCAACACTC GTGGCTCTAC TGGACCTGC TAGTGTAGGG CTGTAACTA  
G T L K Y E #  
301 GGCACCTGAA AGTATGAA A CCGTGGACT TCAACTAT T

(57) Abstract: The invention provides novel recombinant proteins and compositions having non-naturally occurring N-terminal amino acids such as methionine, and methods of making and using the protein for greater anti-viral activity and less toxicity than naturally occurring proteins.

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